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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,973	02/27/2004	David Leslie Agnew	10543-076	9420
	7590 04/04/2007 Michael N. Spink		EXAMINER	
BRINKS HOFER GILSON & LIONE P.O. Box 10395 Chicago, IL 60610			JOHNSON, VICKY A	
			ART UNIT	PAPER NUMBER
			3682	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Occurre	10/789,973	AGNEW ET AL.
Office Action Summary	Examiner	Art Unit
·	Vicky A. Johnson	3682
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be to od will apply and will expire SIX (6) MONTHS from ute, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ The solution of the sum of t	nis action is non-final. vance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdred 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers	rawn from consideration.	
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) and according a control of the specific and a control	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Seection is required if the drawing(s) is old	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ents have been received. Ents have been received in Applicationity documents have been received in PCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	Date

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5 and 9, and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Martindill (US 2,315,632).

Martindill discloses a brake mechanism for a braking system in a motor vehicle, the braking system including an input rod (43) for effecting actuation of vehicle brakes, the brake mechanism comprising: a pedal arm (48) pivotally connected to the vehicle (see Fig 7), a free end of the pedal arm having a brake pedal (see Fig 7) receiving an input force; a beam (49) interposed between the pedal arm and the input rod for transmitting an output force from the pedal arm to the input rod (col. 4 lines 63-68), the beam pivotally connected to the pedal arm and rotatable relative thereto (see Fig 7); a cam (16) defining a cam profile (see Fig 7), the beam contacting the cam and following the cam profile as the pedal arm swings relative to the vehicle (see Fig 7), the cam profile shaped to adjust the position of the beam to modify the ratio of the output force to the input force of the brake mechanism (col. 3 lines 5-35).

Re claim 2, the position of the beam relative to the pedal arm determines the force ratio of the brake mechanism (col. 3 lines 5-35).

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Re claim 3, the pedal arm travels between at least a neutral position and an extended position (col. 3 lines 5-35).

Re claim 4, the force ratio quickly increases as the pedal arm travels beyond a predetermined point past the neutral position to the extended position (col. 3 lines 5-35).

Re claim 5, the force ratio at the extended position is sufficient for vehicle braking (col. 3 lines 25-35) in a failed power situation (Inherent mechanical brakes).

Re claim 9, the cam profile includes a first portion generally perpendicular to the input rod and a second portion generally parallel to the input rod (see Fig 7).

Re claim 10, the cam profile includes a third portion connecting the first and second portions, the third portion being curved in shape (see Fig 7).

3. Claims 11-16 and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (US 1,808,121).

Smith discloses a brake mechanism comprising: a pedal arm (12) pivotally connected (13) to the vehicle, the pedal arm receiving an input force from an operator of the vehicle; a beam (17) pivotally connected to the pedal arm at a first point (18) along the beam, the beam connected to the input rod (10) at a second point (14) along the beam, the beam transmitting an output force from the pedal arm to the input rod; a cam (15) having a surface defining a cam profile (see Fig 1); the beam contacting the cam at a third point (16) along the beam and following the cam profile, the beam pivoting relative to the pedal arm as the beam follows the cam profile to adjust the ratio of the output force to the input force of the brake mechanism (col. 1 lines 1-30).

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Re claim 12, the position of the beam relative to the pedal arm is determined by the shape of the cam profile (see Fig 1).

Re claim 13, the position of the second point relative to the first point is determined by the shape of the cam profile (see Fig 1).

Re claim 14, the position of the second point relative to the first point determines the force ratio of the braking mechanism (see Fig 1).

Re claim 15, the second point moves from a position vertically below the first point to a position substantially horizontally aligned with the first point (see Figs 1 and 3).

Re claim 16, the pedal arm travels between a non-braked position and a braked position, and wherein the second point moves vertically upward as the pedal arm travels from the non-braked position to the braked position (see Figs 1 and 3).

Re claim 18, the beam includes a roller at the third point, the roller contacting the cam and following the cam profile (see Fig 1).

Re claim 19, the surface of the cam defines a track defining the cam profile, the beam engaging the track (see Fig 2).

Re claim 20, the cam profile includes a substantially vertical surface transitioning into a substantially horizontal surface (see Fig 1).

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Allowable Subject Matter

4. Claims 6-8 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1,754,354	Gans	(cam)
3,788,161	Krusemark	(cam)
3,810,400	Schroter	(cam)
4,386,537	Lewis	(cam)
4,615,235	Horvath	(cam)
4,624,152	Stotz et al	(cam)
6,446,526	Reimann et al	(cam)
7,082,853	Fujiwara	(cam)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vicky A. Johnson whose telephone number is (571) 272-7106. The examiner can normally be reached on Monday-Friday (7:00a-3:30p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6217. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Vicky A. Johnson Primary Examiner

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